FUROBENZOPYRAN DERIVATIVE AND HERBICIDE CONTAINING THE **DERIVATIVE AS ACTIVE COMPONENT**

Patent Number:

JP7188244

Publication date:

1995-07-25

Inventor(s):

ARAI SEIJI; others: 05

Applicant(s)::

MITSUI TOATSU CHEM INC

Requested Patent:

☐ JP7188244

Application Number: JP19940243890 19941007

Priority Number(s): IPC Classification:

C07D493/04; A01N43/90; A01N47/06; A01N47/28; A01N47/30; A01N57/16

EC Classification:

Equivalents:

JP3117371B2

Abstract

PURPOSE:To obtain a new compound exhibiting excellent herbicidal action, extremely safe to useful crops such as paddy rice plant, soybean and cotton and useful as a herbicide for paddy rice, plowed field and

CONSTITUTION: This furobenzopyran derivative is a compound of formula I [R1 is a lower alkyl; R2 is a lower alkyl, a lower alkoxy, a halogen or a halogen-substituted lower alkyl; R3 is a lower alkyl, a lower alkoxy, a halogen, phenoxy, etc.; R4 is H or a lower alkyl; R5 is cyano, nitro, phenyl or S(C)qR6 (R6 is a lower alkyl, etc.; (q) is 0-2); (m) is 0-2; (p) is 1-3; etc.], e.g. (2R,3S,3aS,9bR)-2-ethyl-6-methoxymethyl-3-(2-methylbenzyloxy)-3,3a,5,9b- tetrahydro-2H-furo[3,2-C] [2]benzopyran. The compound of formula I can be produced by the intramolecular cyclization reaction of a tetrahydrofuran derivative of formula II. The herbicide is effective for the control of weeds such as barnyard grass, large crab-grass, green fortall, white-bird's-eye and green amazenth. green foxtail, white-bird's-eye and green amaranth.

Applicants: Timothy Norris et al.

Serial No.: 09/711,272 Filed: November 9, 2000

Exhibit 48